

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/052307 A1

(51) International Patent Classification⁷:

E21B 21/08

(74) Agent: HÅMSØ PATENTBYRÅ ANS; P.O. Box 171, N-4302 SANDNES (NO).

(21) International Application Number:

PCT/NO2004/000359

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:

24 November 2004 (24.11.2004)

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20035257 27 November 2003 (27.11.2003) NO

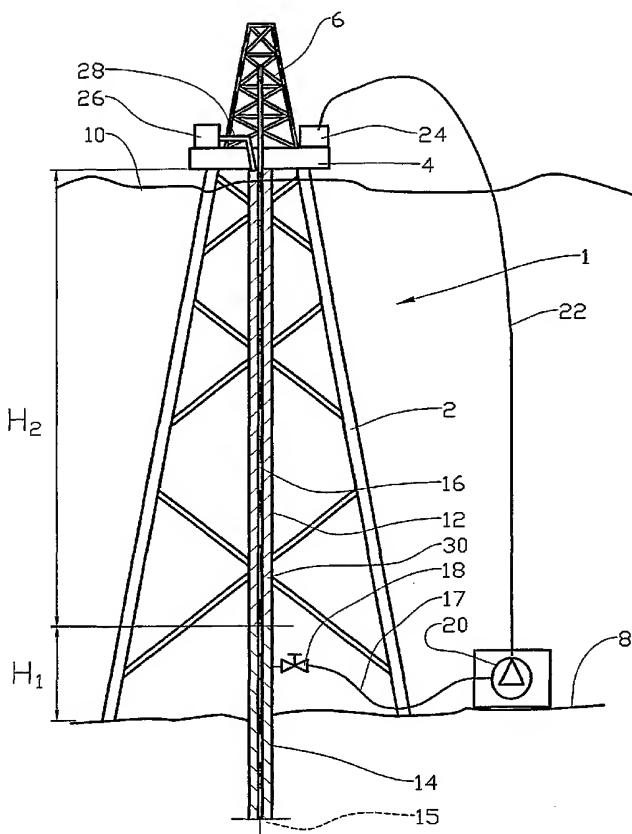
(71) Applicant (for all designated States except US): AGR SUBSEA AS [NO/NO]; P.O. Box 163, N-5342 STRAUME (NO).

(72) Inventor; and

(75) Inventor/Applicant (for US only): STAVE, Roger [NO/NO]; Valahøgda 9, N-5355 KNARREVIK (NO).

[Continued on next page]

(54) Title: A METHOD AND DEVICE FOR CONTROLLING DRILLING FLUID PRESSURE



(57) Abstract: A method and device for controlling drilling fluid pressure during subsea drilling, where drilling fluid is pumped down into a borehole (15) and then flows back to a drilling rig (1) via the lined and/or unlined sections of the borehole (15) and a liner (14), wherein the drilling fluid pressure is controlled by pumping drilling fluid out of the liner (14) at the seabed, and where the liner (14) annulus (30) above the drilling fluid is filled with a riser fluid having a density different from that of the drilling fluid.

WO 2005/052307 A1



SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*